

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1-12. (Cancelled).

13. (New) A computing apparatus connected to a network and functioning as a router, the computing apparatus comprising:

a pointer storage section capable of storing a pointer for specifying an execution section for execution of computation, the execution section including an event handler to be called when occurrence of a corresponding event is detected;

a data storage section capable of storing a plurality of data that include routing information in the network;

an execution instruction section that awaits occurrence of an event, the event including reception of a packet from the network, maintains a data-pointer for specifying at least one of the plurality of data stored in said data storage section, and when occurrence of the corresponding event is detected, specifies the execution section by the pointer stored in said pointer storage section, causing the execution section to execute computation related to the routing information by use of said at least one of the plurality of data specified by the data-pointer; and

a pointer management section capable of changing the pointer stored in said pointer storage section from a first pointer to a second pointer, the first

pointer specifying a first execution section and the second pointer specifying a second execution section,

wherein said data storage section is capable of keeping the plurality of data stored, after the pointer is changed by said pointer management section, thereby enabling said execution instruction section to cause the second execution section to execute computation by use of at least one of the plurality of data that has been used by the first execution section, and enabling the event handler to be updated while keeping a state of communication or socket in the router.

14. (New) The computing apparatus according to claim 13,

wherein said pointer management section includes a function of deleting the pointer stored in said pointer storage section and a function of adding another pointer to said pointer storage section.

15. (New) The computing apparatus according to claim 13,

wherein said pointer management section includes a function of re-reading the execution section by reading the second execution section in place of the first execution section.

16. (New) The computing apparatus according to claim 13,

wherein said pointer management section further has a function of reading a data conversion execution section for converting data stored in the data storage section.

17. (New) The computing apparatus according to claim 13,

wherein said data storage section is capable of storing information of a version of the data, and said execution section is capable of executing computation by use of the data in accordance with the version indicated by the information.

18. (New) The computing apparatus according to claim 13,

wherein said pointer management section includes a function of adding another execution section, and a function of adding another pointer specifying said another execution section to said pointer storage section.

19. (New) The computing apparatus according to claim 13,

wherein said pointer management section includes a function of deleting the execution section, and a function of deleting or changing said pointer stored in said pointer storage section, said pointer specifying the execution section deleted.

20. (New) The computing apparatus according to claim 13,

wherein the data stored in said data storage section includes at least one of:
data received from the network; data transmitted to the network; and data
computed based on the data received and/or the data transmitted.

21. (New) The computing apparatus according to claim 13,
wherein the routing information is used in selecting a network interface for
transmitting a packet received from the network.

22. (New) The computing apparatus according to claim 13,
wherein said pointer management section includes a function of reading
the second execution section in place of the first execution section, the second
execution section being free from one or more errors identified in the first
execution section and/or including a function in addition to functions included in
the first execution section.

23. (New) A computer usable program for a computer connected to a network
and functioning as a router, the computer usable program causing the computer to
execute:

storing, in a pointer storage section, a pointer for specifying an execution
section for execution of computation, the execution section including an event
handler to be called when occurrence of a corresponding event is detected;

storing, in a data storage section, a plurality of data that include routing information in the network;

awaiting occurrence of an event, the event including reception of a packet from the network;

maintaining a data-pointer for specifying at least one of the plurality of data stored in said data storage section;

specifying, when occurrence of the corresponding event is detected, the execution section by the pointer stored in said pointer storage section, such that the execution section executes computation related to the routing information by use of said at least one of the plurality of data specified by the data-pointer; and

changing the pointer stored in said pointer storage section from a first pointer to a second pointer, the first pointer specifying a first execution section and the second pointer specifying a second execution section,

wherein the plurality of data in said data storage section are kept stored, after the pointer is changed, thereby enabling the second execution section to execute computation by use of at least one of the plurality of data that has been used by the first execution section, and enabling the event handler to be updated while keeping a state of communication or socket in the router.

24. (New) A computing method performed in a computer connected to a network and functioning as a router, the method comprising:

storing, in a pointer storage section, a pointer for specifying an execution section for execution of computation, the execution section including an event handler to be called when occurrence of a corresponding event is detected;

storing, in a data storage section, a plurality of data that include routing information in the network;

awaiting occurrence of an event, the event including reception of a packet from the network;

maintaining a data-pointer for specifying at least one of the plurality of data stored in said data storage section;

specifying, when occurrence of the corresponding event is detected, the execution section by the pointer stored in said pointer storage section, such that the execution section executes computation related to the routing information by use of said at least one of the plurality of data specified by the data-pointer; and

changing the pointer stored in said pointer storage section from a first pointer to a second pointer, the first pointer specifying a first execution section and the second pointer specifying a second execution section,

wherein the plurality of data in said data storage section are kept stored, after the pointer is changed, thereby enabling the second execution section to execute computation by use of at least one of the plurality of data that has been used by the first execution section, and enabling the event handler to be updated while keeping a state of communication or socket in the router.